

I claim:

5 I. A device network having selectable target devices, said device network comprising:
a controller device;
one or more target devices in communication with said controller device; and
one or more selecting devices, each of which is movable relative to said target devices, and includes:

10 means for sensing position and orientation to provide data therefor;
means for generating at least one control signal, incorporating said position and orientation data in response to a user input; and
means for transmitting said control signals via at least one of a plurality of communication resources to said controller device; and
15 wherein said controller device acquires and stores actual location information for each target device, and assesses correspondence of said position and orientation data with said actual location data, and if there is correspondence, outputs a control signal to select said target device to be operative.

20 2. The device network of claim 1, wherein said controller assesses correspondence from the selecting device position and orientation and said actual target location by deriving a target orientation, and determining correspondence of said target orientation with said orientation data.

25 3. The device network of claim 1, wherein said orientation data includes angles between a ray joining the respective points in a three-dimensional Cartesian system and two respective axes of said system.

30 4. The device network of claim 2, wherein said position sensing means comprises an accelerometer whose output is doubly integrated to give an output of position, or a positioning means using UWB.

5. The device network of claim 4, wherein said orientation sensing means comprises a gyroscope.

5 6. The device network of claim 5, wherein said each selecting device includes a pointing means to line up a said target device.

7. The device network of claim 6, wherein said pointing means is a display, printed indicium, or pointed shape.

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8. The device network of claim 1, wherein communication between said selecting devices and said controller device is wireless.

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9. The device network of claim 8, wherein said wireless communication is either RF or IR type.

10. The device network of claim 1, wherein communication between said target devices and said controller device is wired or wireless.

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11. A selecting device for selecting one or more target devices in a device network, said selecting device comprising:

means for sensing position and orientation to provide data therefor;

means for generating at least one control signal, incorporating said position and orientation data, in response to a user input; and

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means for transmitting said control signals via at least one of a plurality of communication resources to said controller device.

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12. The selecting device of claim 11, wherein said position sensing means comprises an accelerometer whose output is doubly integrated to give an output of position, or a positioning means using UWB.

13. The selecting device of claim 12, wherein said orientation sensing means comprises a gyroscope.

14. The selecting device of claim 13, wherein said each selecting device includes a pointing means to line up a said target device.

15. The selecting device of claim 11, wherein said transmitting means is wireless.

16. The selecting device of claim 15, wherein wireless communication is either IR or RF type.

17. A method for selecting one or more target devices in a device network, said method comprising the steps of:

generating a control signal from a selecting device, said control signal having position and orientation data of said selecting devices;

determining whether said one or more target devices can be identified based on said position and orientation data; and

generating a target control signal to activate an identified target device.

18. The method of claim 17, wherein said determining step is performed by deriving a target orientation from the selecting device location and actual target location, and comparing said derived orientation with said orientation data.

19. A method for selecting a target, said method comprising the steps of:

generating a control signal from a selecting device, said control signal having position and orientation data of said selecting devices; and

determining whether a target of known location can be identified based on said position and orientation data.

20. The method of claim 19, wherein said determining step is performed by deriving a

target orientation from the selecting device location and actual target location, and comparing said derived orientation with said orientation data.

21. A device network having selectable target devices, said device network comprising:
5 a controller device;
one or more targets; and
one or more selecting devices, each of which is movable relative to said targets, and
includes:

means for sensing position and orientation to provide data therefor;

10 means for generating at least one control signal, incorporating said position
and orientation data in response to a user input; and

means for transmitting said control signals via at least one of a plurality of
communication resources to said controller device; and

wherein said controller device stores actual location information for each target, and
15 assesses correspondence of said position and orientation data with said actual location data,
and if there is correspondence, selects said target.

22. The device of claim 21, wherein said controller assesses correspondence from the
selecting device position and orientation and said actual target location by deriving a target
20 orientation, and determining correspondence of said target orientation with said orientation
data.